

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. J-401

API Well No. 47-083-0386 State County P

WELL TYPE: Oil / Gas X / (If "Gas", Production X / Underground storage / Deep X / Shallow /) LOCATION: Elevation: 2785 Watershed: Marsh Fork District: Middle Fork County: Randolph Quadrangle: Pickens

WELL OPERATOR J&J Enterprises Inc Address P.O.Box 48 Buckhannon W.V 26201

DESIGNATED AGENT H.L. Barnett Address P.O.Box 48 Buckhannon W.V. 26201

OIL & GAS ROYALTY OWNER Russell & Doris Haddix Address Rt. 2 Box 109 Buckhannon W.V. 26201 Acreage 100

COAL OPERATOR None Address

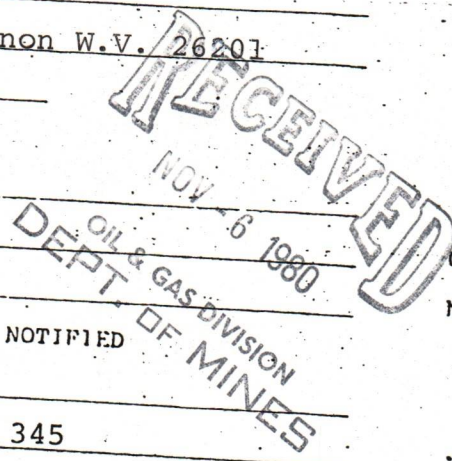
SURFACE OWNER Russell & Doris Haddix Address Rt. 2 Box 109 Buckhannon W.V. 26201 Acreage 100

COAL OWNER(S) WITH DECLARATION ON RECORD: Name Edwin Ramsey Address C/O George Ramsey 6 McCreedy Ave. Wheeling, WV 26003

FIELD SALE (IF MADE) TO: Name Unknown Address

COAL LESSEE WITH DECLARATION ON RECORD: Name None Address

OIL & GAS INSPECTOR TO BE NOTIFIED Name Robert Stewart Address P.O.Box 345 Jane Lew W.V 26378



The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease X / other contract / dated Aug. 20, 1980, to undersigned well operator from Russell & Doris Haddix

recorded on 19 in the office of the Clerk of the County Commission of Randolph County, West Virginia, in Oil & Gas Lease Book 332 at page 429. A permit is requested as follows:

PROPOSED WORK: Drill X / Drill deeper / Redrill / Fracture or stimulate X / Plug off old formation / Perforate new formation / Other physical change in well (specify)

--planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any action they wish to make or are required to make by Code § 20-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

Copies of this Permit Application and the enclosed plan and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee before the day of the mailing or delivery of this Permit Application to the Department of Mines, Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL PHYSICAL LOGS DIRECTLY TO: VIRGINIA OIL AND GAS CONSERVATION COMMISSION WASHINGTON STREET EAST ESTON, WV 25811 PHONE: (304) 348-3092

BLANKET BOND

J&J Enterprises Inc. Well Operator Peter Battles Geologist

03/22/2024

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) S.W. Jack Drilling Co.
Address P.O. Box 48
Buckhannon W.V. 26201

GEOLOGICAL TARGET FORMATION, Oriskany
Estimated depth of completed well, 8000 feet Rotary / Cable tools /
Approximate water strata depths: Fresh, 50 feet; salt, 1200 feet.
Approximate coal seam depths: _____ Is coal being mined in the area? Yes No

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling	Left in well		
Conductor	1 1/4	H40	42	X		80	80	0	Kinds
Fresh water	8 5/8	ERW	23	X		1800	1800	300sks.	
Coal	8 5/8	ERW	23	X		1800	1800	300sks	Sizes
Intermediate									
Production	4 1/2	J55	10.5	X		7900	7900	500sks	Depths set
Tubing									
Liners									Perforations:
									Top Bottom

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable the consent required by Code § 22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is a part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

THIS PERMIT MUST BE POSTED AT THE WELL SITE
All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 7-19-81.

[Signature]
Deputy Director - Oil & Gas Division

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code § 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

The undersigned coal operator / owner / lessee / of the coal under this location has examined this proposed well location. If a mine map exists which covers the area of well location, the well location has been added to the mine map. The undersigned has no objection the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

03/22/2024

By: November 4, 1980
Leon W. Brown

By Edwin Ramsey
Landowner (mine coal)

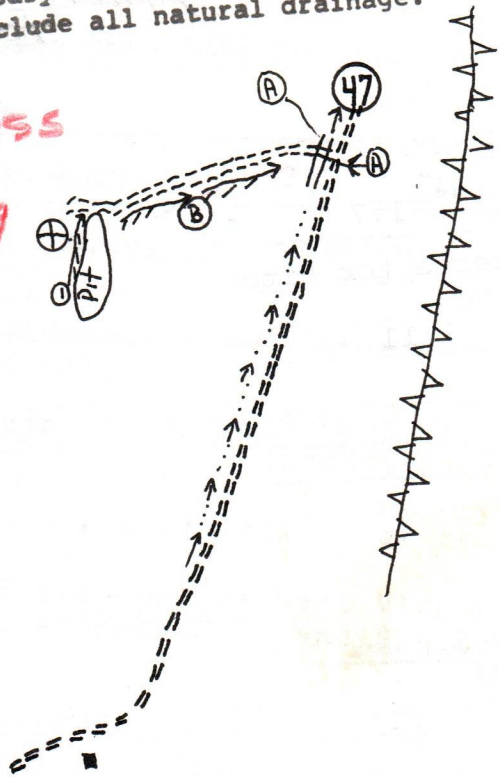
Well Site Plan

- Legend:
- Property Boundry
 - Road
 - Existing Fence
 - Planned Fence
 - Stream
 - Open Ditch

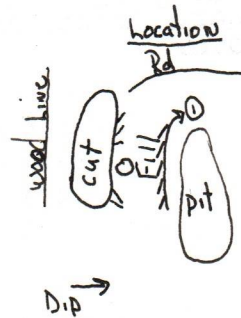
- Diversion
- Spring
- Wet Spot
- Building
- Drain Pipe
- Waterway

Sketch to include well location, existing access road, roads to be constructed, wellsite, drilling pits and necessary structures numbered or lettered to correspond with first part of this plan. Include all natural drainage.

**Ditch Relief Cross
DRAINS - 250' SPACING**



Rd. slope 10%
open Ditch along existing Rd.
location Rd. into open Field



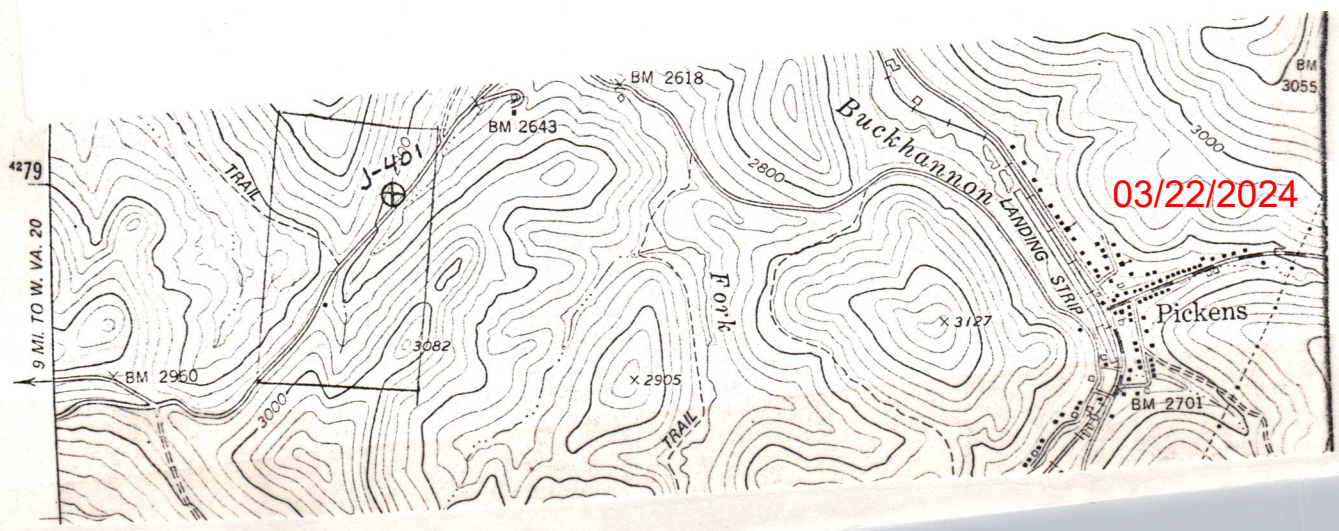
slope 7%
location in open f
no water channels
near location

Comments: Average slope of well Rd. 10% Location slope 7% Cuts will be 2:1 slope Ditches will be maintained after completion. No timber at site Location will be backfilled to near the natural contour.

Signature: Peter Battles Agent P.O. Box 48 Buckhannon W.V. 472-9403 Address Phone Number

03/22/2024

Please request landowners cooperation to protect new seeding for one growing season.



03/22/2024

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WEST VIRGINIA DEPARTMENT OF MINES
DIVISION OF OIL AND GAS

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Oriskany: Perforations: 7657-7743 (9 Holes)

Fracturing: 20,000 lbs. 80/100 sand: 40,000 20/40 sand: 700 Bbls.fluid.

Benson: Perforations: 4071-76 (12 holes)

Fracturing: 15,000 lbs. 80/100 sand:

Riley: Perforations: 3891-94 (2 hoels)

50,000 lbs. 20/40 sand:

75 gals. Pen 5

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Clay & Shale			0	25	
Shale & sand			25	73	1½" stream @ 47'
Coal			73	76	
Shale & sand			76	225	
Red rock, sand & shale			225	590	
Coal			590	593	
Shale & sand			593	665	1" stream @ 1250'
Coal			665	667	
Shale & sand			667	820	Gas ck @ 2266 No show
Coal			820	822	
Shale & sand			822	960	Gas ck @ 3744 No show
White sand			960	1050	Gas ck @ 4235 No show
Sand, shale & red rock			1050	1490	Gas ck @ 4484 No show
Big Lime			1490	1835	
Shale & red rock			1835	1920	Gas ck @ 5008 No show
Sand & shale			1920	3450	
Benson			3450	4066	Gas ck @ 5779 No show
Sand & shale			4066	4082	
Sand			4082	4380	Gas ck @ 6550 12/10-3/4" w/water 3,665 cu.ft.
Sand & shale			4380	4700	
Sand			4700	4740	
Sand & shale			4740	5000	Gas ck @ 30/10- 3/4" w/water 5,796 cu.ft.
Sand			5000	5050	
Sand & shale			5050	6880	
Shale			6880	7110	
Marcellus shale			7110	7430	
Onondaga Limestone			7430	7485	
Huntersville Chert			7485	7580	
Shale			7580	7630	
Oriskany			7630	7730	
Helderberg Limestone			7730	7819 TD	

(Attach separate sheets to complete as necessary.)

J & J Enterprises, Inc.

Well Operator
By Peter Battles
Its Peter Battles Geologist

03/22/2024

NOTE: Regulation 2.02(d) provides as follows:
"The term 'log' or 'well log' shall mean a systematic, detailed geological record of all formations, including coal, encountered in the drilling of a well."

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Date: March 31, 1982

Operator's Well No. J-401

API Well No. 47-083-0386
State County Permit

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES
STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas / Liquid Injection / Waste Disposal
(If "Gas", Production / Underground storage / Deep / Shallow /)

LOCATION: Elevation: 2785 Watershed: Marsh Fork
District: Middle Fork County: Randolph Quadrangle: Pickens

WELL OPERATOR J & J Enterprises, Inc. DESIGNATED AGENT Harry L. Barnett
Address P.O. Box 48 Address P.O. Box 48
Buckhannon, WV 26201 Buckhannon, WV 26201

PERMITTED WORK: Drill / Convert / Drill deeper / Redrill / Fracture or stimulate
Plug off old formation / Perforate new formation
Other physical change in well (specify) _____

PERMIT ISSUED ON 11/6/, 19 80, OIL & GAS INSPECTOR FOR THIS WORK:
(IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED) Name Robert Stewart
Address P.O. Box 345

GEOLOGICAL TARGET FORMATION: Oriskany Depth 7640-7725 feet
Depth of completed well, 7819 feet Rotary / Cable Tools
Water strata depth: Fresh, 47 feet; salt, 0 feet.
Coal seam depths: 73-76, 590-93, 665-67 Is coal being mined in the area? No
Work was commenced 4/8, 19 81, and completed 4/23, 19 81

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling	Left in well		
Conductor	11 ³ / ₄	H-40	42	x		50	50	0 sks.	Kinds
Fresh water	8 5/8	ERW	23	x		1829	1829	400 sks.	
Coal	8 5/8	ERW	23	x		1829	1829	400 sks.	Sizes
Intermediate									
Production	4 ¹ / ₂	J-55	10.5	x		4170	4170	250 sks.	Deaths set
Tubing									
Liners									Perforations:
									Top Bottom
									3891 3894
									4071 4076
									7657 7743

OPEN FLOW DATA
Producing formation Oriskany Pay zone depth 7657-7743 feet
Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ Bbl/d
Combined Final open flow, 622 Mcf/d Final open flow, _____ Bbl/d
Time of open flow between initial and final tests, 4 hours

Static rock pressure, 1250 psig (surface measurement) after 96 hours shut in
[If applicable due to multiple completion--]
Second producing formation Benson & Riley Pay zone depth 3891 - 3894 feet
Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ Bbl/d
Final open flow, _____ Mcf/d Final open flow, _____ Bbl/d
Time of open flow between initial and final tests, _____ hours

Bottom Hole Pressure static rock pressure, _____ psig (surface measurement) after _____ hours shut in
Pf=Pwe^{XGLS} 1 1
t=60+0.0075x4170+459.7=551 X=53.34x551 =29390 =0.000034 Pf=1250 x 2.72 (0.000034) (0.6) (3984) (0.9)
=1250 x 2.72 (0.073) =1250 x 1.08
Pf=1350 psi

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION

INSPECTOR'S WELL REPORT

Permit No. 083-0386

Oil or Gas Well GAS
KIND

Company FJJ Enterprises
 Address Buck Hannon
 Farm Russel HADDIX
 Well No. J-401
 District Middle Fork County RANDOLPH
 Drilling commenced 4-8-81
 Drilling completed _____ Total depth _____
 Date shot _____ Depth of shot _____
 Initial open flow _____ /10ths Water in _____ Inch
 Open flow after tubing _____ /10ths Merc. in _____ Inch
 Volume _____ Cu. Ft.
 Rock pressure _____ lbs. _____ hrs.
 Oil _____ bbls., 1st 24 hrs.
 Fresh water _____ feet _____ feet
 Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	Left in Well	PACKERS
Size			
16			Kind of Packer
13			
10			Size of
8 1/4			
6 3/4			Depth set
5 3/8			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom
CASING CEMENTED	SIZE	No. FT	Date
NAME OF SERVICE COMPANY			
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
_____ FEET _____ INCHES _____ FEET _____ INCHES			
_____ FEET _____ INCHES _____ FEET _____ INCHES			

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APR 13 1981

OIL & GAS DIVISION
DEPT. OF MINES

Drillers' Names S.W. JACK RIG 20

Remarks: MOVE RIG SPUD

4-9-81

DATE

Robert Stewart
DISTRICT SUPERVISOR

03/22/2024

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION

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OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 083-0386

Oil or Gas Well GAS
(KIND)

Company <u>J&J ENTERPRISES</u>	CASING AND TUBING	USED IN DRILLING	Left in Well	PACKERS
Address <u>BUCK HANNON</u>	Size			
Farm <u>RUSSEL HADDIX</u>	16			Kind of Packer
Well No. <u>J-401</u>	13			Size of
District <u>MIDDLE FORK</u> County <u>RANDOLPH</u>	10			Depth set
Drilling commenced <u>4-8-81</u>	8 1/4			Perf. top
Drilling completed _____ Total depth _____	6 1/4			Perf. bottom
Date shot _____ Depth of shot _____	5 3/16			Perf. top
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. bottom
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. top
Volume _____ Cu. Ft.	Liners Used			Perf. bottom
Rock pressure _____ lbs _____ hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date			
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY			
Fresh water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names _____

Remarks:

OK To Release

10-21-82

03/22/2024
Robert Stewart 34



State of West Virginia

Department of Mines

Oil and Gas Division

Charleston 25305

WALTER N. MILLER
DIRECTOR

November 10, 1982

J & J Enterprises, Inc.
P. O. Box 48
Buckhannon, W. Va. 26201

Dear Sir:

The required records and reports have been received in this office and the District Inspectors have submitted Final Inspections for the following wells listed below:

<u>PERMIT NO.</u>	<u>FARM AND WELL NUMBER</u>	<u>DISTRICT</u>
RAN-0386	Russel & Doris Haddix, #J-401	Middle Fork
RAN-0442	Mountaineer/Bert Been, #J-489	Middle Fork
TYL-0924	W. Paul McCutchan, #J-514	Centerville
UPS-2289	James & Eula Archer, #J-524	Union
UPS-2296	James & Eula Archer, #J-523	Union
UPS-2300	Charles & Rosa McCartney, #J-551	Banks
UPS-2328	Frank Harper, #J-574	Union

In accordance with Chapter 22, Article 4, Section 2, the bond coverage for above captioned wells will stay in force for life of well. Reclamation requirements have been approved..... ..

Very truly yours,

Theodore M. Streit

03/22/2024



STATE OF WEST VIRGINIA
OIL AND GAS CONSERVATION COMMISSION
CHARLESTON 25305

November 19, 1980

Mr. Robert L. Dodd, Administrator
Department of Mines
Office of Oil and Gas.

RE: APPLICATION FOR PERMIT #47-083 - 0386 TO DRILL DEEP WELL

COMPANY: J & J ENTERPRISES, INC.

FARM: RUSSELL G. AND DORIS K. HADDIX

COUNTY: RANDOLPH DISTRICT: MIDDLE FORK

The application of the above company is APPROVED FOR ORISKANY COMPLETION
(APPROVED-DISAPPROVED)

Applicant HAS complied with the provisions of chapter twenty-
(HAS-HAS NOT)
two, article four-a, (§22-4A), of the code of West Virginia, nineteen
hundred and thirty-one (1931), as amended, Oil and Gas Conservation,
as follows:

1. *Provided a certified copy of duly acknowledged and recorded consent and easement from all surface owners; YES*
2. *Provided a tabulation of all deep wells within one mile of the proposed location, including the API number of the deep well, well name, and the name and address of the operator, and, None*
3. *Provided a plat showing that the proposed location is a distance of 450 feet from the nearest unit boundary and showing the following wells drilling to or capable of producing from the objective formation within 3000 feet of the proposed location: None*

Very truly yours,

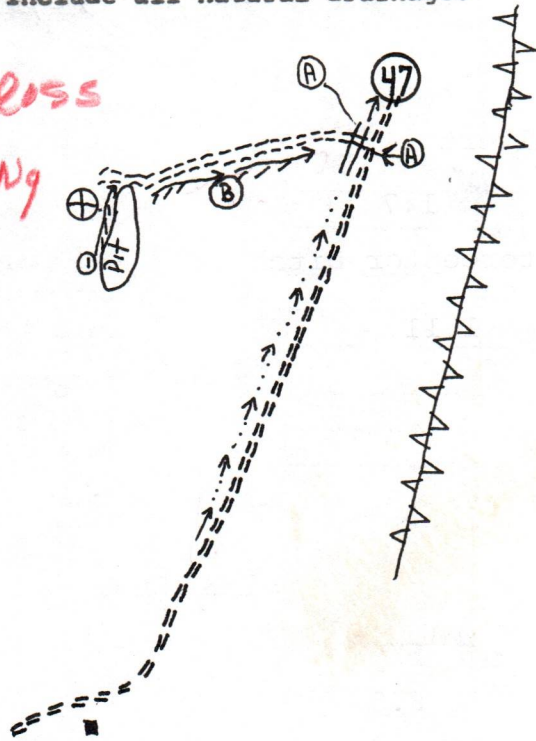
Thomas E. Huzzey
Commissioner

Well Site Plan

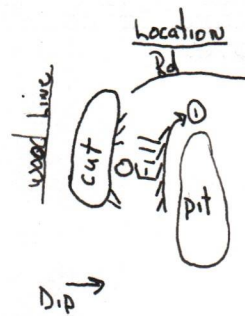
- Legend:**
- Property Boundry
 - Road
 - Existing Fence
 - Planned Fence
 - Stream
 - Open Ditch
- Diversion
 - Spring
 - Wet Spot
 - Building
 - Drain Pipe
 - Waterway

Sketch to include well location, existing access road, roads to be constructed, wellsite, drilling pits and necessary structures numbered or lettered to correspond with first part of this plan. Include all natural drainage.

*Ditch Relief Cross
DRAINS - 250' SPACING*



Rd. slope 10%
open Ditch along existing Rd.
Location Rd. into open Field



slope 7%
location in open field
no water channels + streams
near location

Comments: Average slope of well Rd. 10% Location slope 7% Cuts will be on 2:1 slope Ditches will be maintained after completion. No timber at site. Location will be backfilled to near the natural contour.

Signature: John Battles Agent P.O. Box 48 Buckhannon W.V. Address 472-9403 Phone Number

03/22/2024

Please request landowners cooperation to protect new seeding for one growing season.

